PATENT

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant :

Lorin R. DeBonte et al.

Art Unit: 1649

Serial No.:

08/572,027

Examiner: G. Benzion

Filed

12/14/95

Title

PLANTS HAVING MUTANT SEQUENCES THAT CONFER ALTERED

FATTY ACID PROFILES

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AFORWEN SEF 2 - 1998

Assistant Commissioner for Patents Washington, DC 20231

13HOUR 1800

## RESPONSE AFTER FINAL PURSUANT TO 37 C.F.R. §1.116

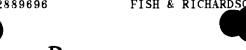
In response to the Examiner's action mailed July 7, 1998, please amend the application as follows:

## In the Claims

- An isolated nucleic acid (Three Times Amended) l. fragment comprising a sequence of at least about 20 nucleotides from a Brassicaceae or Helianthus delta-12 fatty acid desaturase gene having at least one mutation in a region of said desaturase gene encoding a His-Xaa-Xaa-Xaa-His amino acid motif, wherein said at least one mutation [is effective for altering the fatty acid composition in Brassicaceae or Helianthus seeds] renders the product of said desaturase gene non-functional and wherein said sequence includes said at least one mutation.
- (Twice Amended) The nucleic acid fragment of claim \$, wherein the wild-type sequence of said motif comprises the [wild-type amino acid] sequence His-Glu-Cys-Gly-His.

(Twice Amended) The nucleic acid fragment of claim &, wherein said at least one mutation in said motif

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9/25/98

Date September 25, 1998

To Examiner Gary Benzion

Group 1649

Assistant Commissioner for Patents

Washington, DC 20231

Facsimile number

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From

Ronald C. Lundquist, Ph.D.

Reg. No. 37,875

Re

Applicant:

Lorin R. DeBonte et al.

Art Unit:

1649

Serial No.:

08/572,027

Filed:

12/14/95

Title:

PLANTS HAVING MUTANT SEQUENCES THAT CONFER

ALTERED FATTY ACID PROFILES

Number of pages

including this page

12

Message:

Attached please find the following:

1. Response After Final Pursuant to 37 C.F.R. §1.116.

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